

Claims

1. A method for posttreatment of an exhaust gas from an internal combustion engine, in which a substance to be mixed with the exhaust gas is sprayed in metered quantities into an exhaust gas line through which the exhaust gas flows, characterized in that the substance is sprayed onto an impact plate (18) disposed inside the exhaust gas line (2).
2. The method as defined by claim 1, characterized in that the substance is sprayed through a spray nozzle (6) into the exhaust gas line (2) and onto the impact plate (18) disposed in the spraying direction of the spray nozzle.
3. The method as defined by one of the foregoing claims, characterized in that the exhaust gas is made turbulent downstream of the impact plate (18) in terms of the flow direction.
4. An apparatus for posttreatment of an exhaust gas from an internal combustion engine, having a device for metered spraying of a substance, to be mixed with the exhaust gas, into an exhaust gas line through which the exhaust gas flows, characterized by an impact plate (18) disposed inside the exhaust gas line (2) in the spraying direction of the device (6, 8).
5. The apparatus as defined by claim 4, characterized in that the impact plate (18) has a low thermal capacity.

6. The apparatus as defined by claim 4 or 5, characterized in that the impact plate (18) communicates with the exhaust gas line (2) through at least one connecting element (26) having a low thermal conductivity.
7. The apparatus as defined by one of claims 4 through 6, characterized in that the impact plate (18) has an impact face (22), which is diametrically opposite a spray nozzle (6) of the device (6, 8).
8. The apparatus as defined by claim 7, characterized in that the impact plate (18), at least in the region of the impact face (22), is provided with a coating (31) that increases the surface area of the surface.
9. The apparatus as defined by claim 7 or 8, characterized by a static mixer (30) disposed downstream of the impact face (22) in terms of the flow direction.
10. The apparatus as defined by claim 9, characterized in that the mixer (30) is embodied integrally with the impact plate (18) that is produced as a stamped and bent part.
11. The apparatus as defined by one of claims 4 through 10, characterized in that the impact plate (18) is tubular.
12. The apparatus as defined by claim 11, characterized in that a spray nozzle (6) of the device (6, 8) is oriented at an acute angle (α) to the flow direction (S) and sprays the

substance through a beveled face end (28) of the impact plate (18) onto an impact face (22) diametrically opposite the spray nozzle (6).